



SPAWAR Systems Center Pacific FY18 EOY Brief to NDIA

08 January 2019

Mr. Bill Bonwit, SES

SPAWAR Systems Center, Pacific

Executive Director (ED)



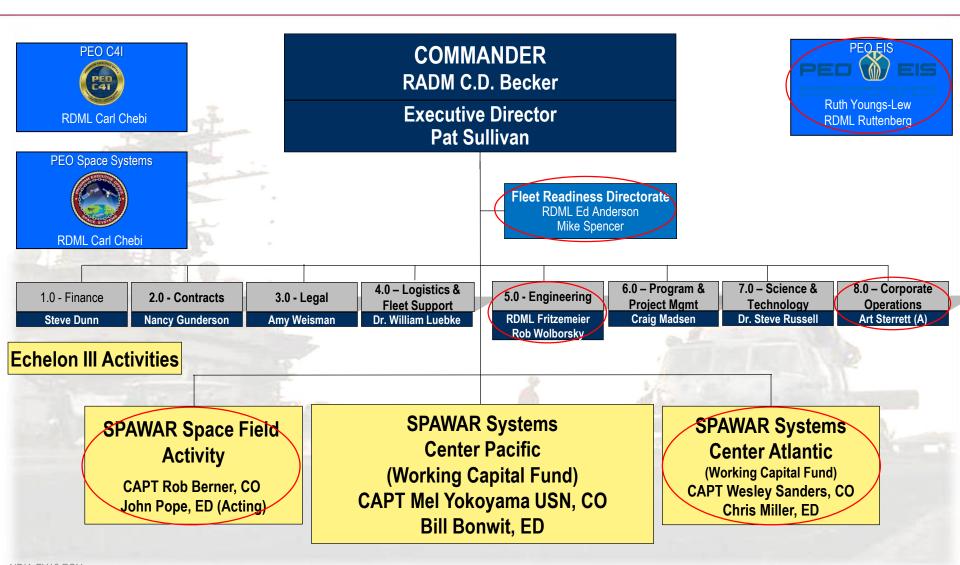
SSC Pacific Mission



Research, development, engineering, and support of integrated C4ISR, cyber, and space systems across all warfighting domains and to rapidly prototype, conduct test and evaluation, and provide acquisition, installation, and in-service engineering support.



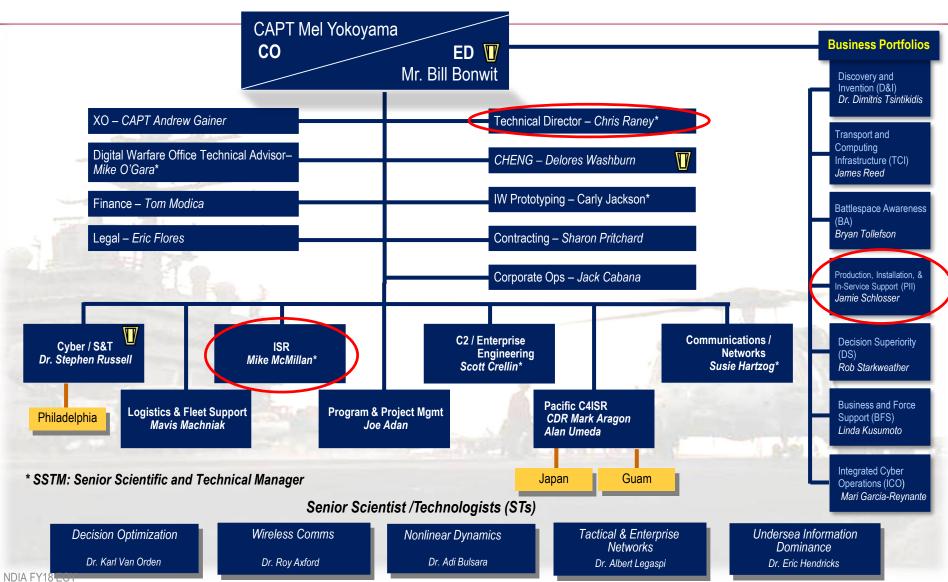
SPAWAR Organization



NDIA FY18 EOY Mr. B. Bonwit 08 JAN 19



SSC Pacific: Organization





FY18 Profile

Our People Are Our Greatest Strength

FY18 Profile

CIVILIANS*	4792
Scientists & Engineers	2353
Tech Specialists	921
S&E Technicians	330
Admin/Professionals	968
General Support	194
SES/ ST/ SSTM/ SL	26
MILITARY	198
Enlisted	134
Officers	64
TOTAL	4,990
*Civilians include NWCF and General Fund	

FY18 = \$2.8B Total Obligation Authority

New Professional (NP) Program:

- ✓ ~2,765 applicants for 71 positions
- ✓ Average GPA 3.49

Highly credentialed, educated workforce

- **√** 204 PhDs
- **√** 1,385 Masters

3,648 SCI Clearances

✓ 1,955 Civil Servants & Military

1,693 Contractors





~ 32% of workforce: Active Duty, Reservists, Veterans ~ 400 Civilians Directly Supporting C4ISR with the Fleet Around the World



Capabilities – Across the Full Life Cycle



Installation and Support

Tomorrow

The Navy in Construction

Engineering, Development, Test and Evaluation

Future The Navy in Planning

Science and Technology



Marine Mammals

EXMAN/Additive Manufacturing

Networks

CAMEO



C4ISR for Unmanned Vehicles



Collaborative **Software Armory**



Integrated Cyber Operations



Mixed Reality



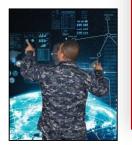
Integrated Fires



Space Command & Control



Compile to Combat in 24 Hours



User Center Design



OFFensive Swarm Enabled Tactics (OFFSET)



HALO-Net



FDECO



Artificial Intelligence/ **Machine Learning**







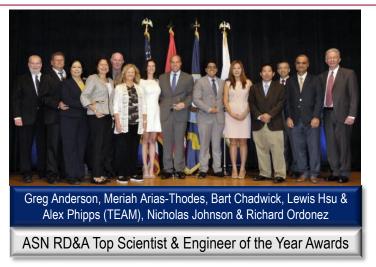
Solid State Laser Atmospherics



Research



2018 Significant Awards











Federal Lab Consortium for Technology Transfer





Team Project Title: Objective-Based Mission Planning for the MK 18 Unmanned Underwater Vehicle

SECNAV Innovation Award



Dr. Adi Bulsara

ONR Dr. Fred E. Saalfield Award for Lifetime Achievement in Science



End of Year Snapshot



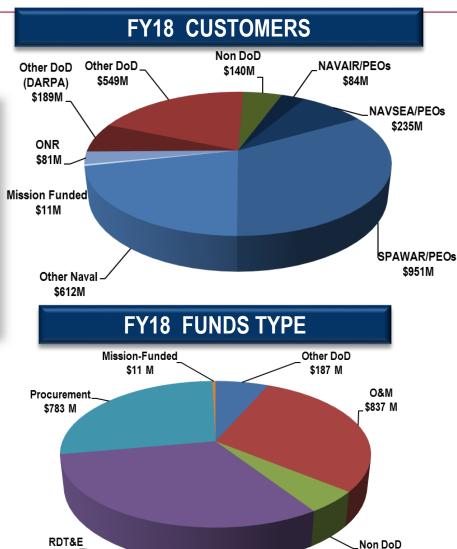
Customer Demand







▼ Strong alignment with CNO Information Warfare priorities



\$139 M

\$895 M



FY18 Contracts

TOTAL CONTRACTS

Competition: Target – 80%. Achieved 81.93% (Dollars)

Active contracts: 522 (D, C, and grants only)

Firms awarded contracts: 831 Different firms were awarded contracts & orders

(including simplified acquisitions)

Total
Amount
Obligated
\$1.3B

Small Businesses

TYPE	Achieved	Target
Small Business Awards	36.55%	26.50%
HUBZone Small Businesses	1.06%	0.90%
Disadvantaged Small Business	11.78%	6.30%
8(a) Small Business	3.08%	N/A
Woman-Owned Small Business	6.66%	4.00%
Service-Disabled Vet-Owned Small Business	4.98%	2.10%



Intellectual Capital and Partnerships – Industry and Academia

CRADA - Cooperative Research and Development Agreement

▼ Establish and foster R&D partnerships with industry and academia, allowing parties to share R&D resources, personnel, equipment and costs, enabling development of new capability, technology, IP

Technology Transfer



- **▼** Promotes innovation and creativity with SSC Pacific technology
- **▼** Important pathway to move Navy innovation from lab to market and ultimately the warfighter

Partnering in Education and Community Outreach



Community Impact: Volunteer [

- **▼** 12.444 Students
- ▼ 150 Schools
- ▼ 766 Teachers
- ▼ 72 Events

PATENTS	FY18
Disclosures	105
Patents Filed	100
Patents Issued	52

Volunteer Data:

- ▼ 552 Volunteers
- ▼ 15,585 Total STEM hours
- **▼** 8,766 Volunteer hours

PUBLICATIONS	FY18
Journal Articles	151
Conf. Papers	335
TRs/TDs	98



▼ <u>Eight Southern California companies</u> are using SSC Pacific technologies.



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Moving Forward

- Strong demand for Cyber and C4ISR
- Increased Focus on Information Warfare
- Increasing demand for Systems of Systems engineering,
 rapid prototyping and experimentation
- ▼ Increase speed to capability and affordability
- ▼ Reduce complexity, streamline processes, and adopt best industry practices
- Artificial Intelligence; Autonomy/Machine Learning; ISR; Networks

